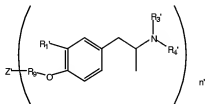


Claim Amendments

Claims 1-24 (canceled).

25. (previously presented) A method for determining methylenedioxyamphetamine and/or methylenedioxymethamphetamine and/or methylenedioxyethamphetamine in a sample suspected of containing methylenedioxyamphetamine and/or methylenedioxymethamphetamine and/or methylenedioxyethamphetamine, said method comprising:

- (a) providing in combination in a medium:
 - (i) said sample,
 - (ii) an antibody for methylenedioxyamphetamine, and/or
 - (iii) an antibody for methylenedioxymethamphetamine, and/or
 - (iv) an antibody for methylenedioxyethamphetamine, and
 - (v) a compound of the formula:



wherein:

R^{1*} is H, or methyl or ethyl

R^{3*} is H,

R^{4*} is H, or methyl or ethyl,

R^6 is $-(\text{CH}_2)_n\text{C}(\text{O})$,

Z' is an enzyme,

n is an integer from 1 to 5,

n' is an integer between 1 and the molecular weight of said enzyme divided by about 500;

and

(b) examining said medium for the presence of a complex comprising said methylenedioxyamphetamine and said antibody for methylenedioxyamphetamine and/or a complex of said methylenedioxymethamphetamine and said antibody for methylenedioxymethamphetamine and/or a complex of said methylenedioxyethamphetamine and

said antibody for methylenedioxyethamphetamine, the presence thereof indicating the presence of said methylenedioxyamphetamine and/or methylenedioxymethamphetamine and/or methylenedioxyethamphetamine in said sample.

Claim 26, (canceled).

27. (previously presented) A method for determining methylenedioxyamphetamine and/or methylenedioxymethamphetamine and/or methylenedioxyethamphetamine in a sample suspected of containing methylenedioxyamphetamine and/or methylenedioxymethamphetamine and/or methylenedioxyethamphetamine, said method comprising:

(a) providing in combination in a medium:

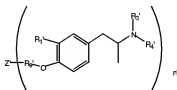
(i) said sample,

(ii) a conjugate of an enzyme and a methylenedioxyamphetamine

analog and a conjugate of an enzyme and a methylenedioxymethamphetamine analog and a conjugate of an enzyme and a methylenedioxyethamphetamine analog,

(iii) an antibody for methylenedioxyamphetamine, said antibody

being raised against a compound of the formula:



wherein:

R^{1*} is H, or methyl or ethyl

R^{3*} is H,

R^{4*} is H,

R^{9*} is $-(CH_2)_nC(O)$,

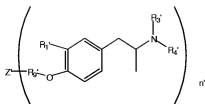
Z' is a protein immunogenic carrier or a non-poly(amino acid) immunogenic carrier,

n is an integer from 1 to 5,

n' is an integer between 1 and the molecular weight of said protein immunogenic carrier or said non-poly(amino acid) immunogenic carrier divided by about 500; and

(iv) an antibody for methylenedioxymethamphetamine, said antibody being

raised against a compound of the formula:



wherein:

R^1 is H, or methyl or ethyl

R^3 is H,

R^4 is methyl,

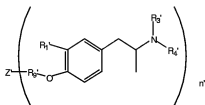
R^5 is $-(CH_2)_nC(O)-$,

Z' is a protein immunogenic carrier or a non-poly(amino acid) immunogenic carrier,

n is an integer from 1 to 5,

n' is an integer between 1 and the molecular weight of said protein immunogenic carrier or said non-poly(amino acid) immunogenic carrier divided by about 500; and

(v) an antibody for methylenedioxyamphetamine, said antibody being raised against a compound of the formula:



wherein:

R^1 is H, or methyl or ethyl

R^3 is H,

R^4 is ethyl,

R^5 is $-(CH_2)_nC(O)-$,

Z' is a protein immunogenic carrier or a non-poly(amino acid) immunogenic carrier,

n is an integer from 1 to 5,

n' is an integer between 1 and the molecular weight of said protein immunogenic carrier or said non-poly(amino acid) immunogenic carrier divided by about 500; and

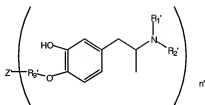
(b) examining said medium for the presence of a complex comprising said methylenedioxyamphetamine and said antibody for methylenedioxyamphetamine and a complex of said methylenedioxymethamphetamine and said antibody for

methylenedioxyamphetamine and a complex of said methylenedioxyamphetamine and said antibody for methylenedioxyamphetamine, the presence thereof indicating the presence of said methylenedioxyamphetamine and/or methylenedioxyamphetamine and/or methylenedioxyamphetamine in said sample.

Claims 28-29 (canceled).

30. (previously presented) A kit comprising in packaged combination:

- (i) an antibody for methylenedioxyamphetamine,
- (ii) an antibody for methylenedioxymethamphetamine, and/or
- (iii) an antibody for methylenedioxyamphetamine, and
- (iv) a compound of the formula:



wherein:

$\text{R}^{1'}$ is H,

$\text{R}^{2'}$ is H, or methyl or ethyl,

$\text{R}^{9'}$ is $-(\text{CH}_2)_n\text{C}(\text{O})$,

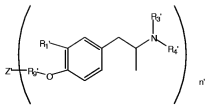
Z' is an enzyme,

n is an integer from 1 to 5,

n' is an integer between 1 and the molecular weight of said enzyme divided by about 500.

31. (previously presented) A kit comprising in packaged combination:

- (i) a conjugate of an enzyme and a methylenedioxyamphetamine analog and/or a conjugate of an enzyme and a methylenedioxymethamphetamine analog, and/or a conjugate of an enzyme and a methylenedioxyamphetamine analog, and
- (ii) an antibody for methylenedioxyamphetamine, said antibody being raised against a compound of the formula:



wherein:

R^{1*} is H, or methyl or ethyl

R^{3*} is H,

R^{4*} is H,

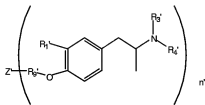
R^{9*} is $-(CH_2)_nC(O)$,

Z' is a protein immunogenic carrier or a non-poly(amino acid) immunogenic carrier,

n is an integer from 1 to 5,

n' is an integer between 1 and the molecular weight of said protein immunogenic carrier or said non-poly(amino acid) immunogenic carrier divided by about 500; and

(iii) an antibody for methylenedioxyamphetamine, said antibody being raised against a compound of the formula:



wherein:

R^{1*} is H, or methyl or ethyl

R^{3*} is H,

R^{4*} is methyl,

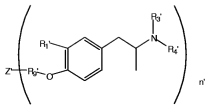
R^{9*} is $-(CH_2)_nC(O)$,

Z' is a protein immunogenic carrier or a non-poly(amino acid) immunogenic carrier,

n is an integer from 1 to 5,

n' is an integer between 1 and the molecular weight of said protein immunogenic carrier or said non-poly(amino acid) immunogenic carrier divided by about 500, and

(iv) an antibody for methylenedioxyamphetamine, said antibody being raised against a compound of the formula:



wherein:

R^1 is H, or methyl or ethyl

R^3 is H,

R^4 is ethyl,

R^9 is $-(CH_2)_nC(O)$,

Z' is a protein immunogenic carrier in or a non-poly(amino acid) immunogenic carrier,

n is an integer from 1 to 5,

n' is an integer between 1 and the molecular weight of said protein immunogenic carrier or said non-poly(amino acid) immunogenic carrier divided by about 500.

Claim 32 (canceled).